



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No: 5030-0001.24

In re patent application of

UNGER, EVAN C. et al.

Serial No. 09/912,609

Filed: July 25, 2001

For: NOVEL TARGETED DELIVERY SYSTEMS FOR BIOACTIVE AGENTS

#7
AKO
8-21-03

STATEMENT TO SUPPORT FILING AND SUBMISSION IN
ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Mail Stop SEQUENCE

Sir:

In connection with a Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

1. the submission, filed herewith in accordance with 37 C.F.R. § 1.821(g), does not include new matter;

2. the content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same.

Respectfully submitted,

July 25, 2003
Date

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SEQUENCE LISTING

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RAMASWAMI, VARADARAJAN
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<120> NOVEL TARGETED DELIVERY SYSTEMS FOR BIOACTIVE AGENTS

<130> 5030-0001.24

<140> 09/912,609
<141> 2001-07-25

<150> 09/703,474
<151> 2000-10-31

<150> 09/478,124
<151> 2000-01-05

<160> 131

<170> PatentIn Ver. 2.1

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Asn Arg His Arg Leu
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Cys Ser Phe Gly Arg Trp Asp Ala Arg Asn Cys
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<210> 29

<211> 11

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Cys Gly Phe Glu Leu Glu Thr Cys
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<210> 35
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<210> 37
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<210> 38
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<210> 39
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Tyr Ser Gly Lys Trp Gly Trp
1 5

<210> 40
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Gly Leu Ser Gly Gly Arg Ser
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Leu Met Leu Pro Arg Ala Asp
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Cys Arg Asp Val Val Ser Val Ile Cys
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Cys Ser Cys Phe Arg Asp Val Cys Cys
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<210> 44

<211> 34

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<400> 44

Tyr Val Pro Leu Pro Asn Val Pro Gln Pro Gly Arg Arg Pro Phe Pro
1 5 10 15Thr Phe Pro Gly Gln Gly Pro Phe Asn Pro Lys Ile Lys Trp Pro Gln
20 25 30

Gly Tyr

<210> 45

<211> 34

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 45

Val Phe Ile Asp Ile Leu Asp Lys Val Glu Asn Ala Ile His Asn Ala
1 5 10 15Ala Gln Val Gly Ile Gly Phe Ala Lys Pro Phe Glu Lys Leu Ile Asn
20 25 30

Pro Lys

<210> 46

<211> 18

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Gly	Asn	Asn	Arg	Pro	Val	Tyr	Ile	Pro	Gln	Pro	Arg	Pro	Pro	His	Pro
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Arg Ile

<210> 47

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Gly	Asn	Asn	Arg	Pro	Val	Tyr	Ile	Pro	Gln	Pro	Arg	Pro	Pro	His	Pro
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Arg Leu

<210> 48

<211> 18

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<400> 48

Gly	Asn	Asn	Arg	Pro	Ile	Tyr	Ile	Pro	Gln	Pro	Arg	Pro	Pro	His	Pro
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Arg Leu

<210> 49

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Arg	Leu	Cys	Arg	Ile	Val	Val	Ile	Arg	Val	Cys	Arg
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<210> 50

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Arg Phe Arg Pro Pro Ile Arg Arg Pro Pro Ile Arg Pro Pro Phe Tyr
 1 5 10 15

Pro Pro Phe Arg Pro Pro Ile Arg Pro Pro Ile Phe Pro Pro Ile Arg
 20 25 30

Pro Pro Phe Arg Pro Pro Leu Arg Phe Pro
 35 40

<210> 51

<211> 59

<212> PRT

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<400> 51

Arg Arg Ile Arg Pro Arg Pro Pro Arg Leu Pro Arg Pro Arg Pro Arg
 1 5 10 15

Pro Leu Pro Phe Pro Arg Pro Gly Pro Arg Pro Ile Pro Arg Pro Leu
 20 25 30

Pro Phe Pro Arg Pro Gly Pro Arg Pro Ile Pro Arg Pro Leu Pro Phe
 35 40 45

Phe Arg Pro Gly Pro Arg Pro Ile Pro Arg Pro
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<210> 52

<211> 36

<212> PRT

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<400> 52

Trp Asn Pro Phe Lys Glu Leu Glu Arg Ala Gly Gln Arg Val Arg Asp
 1 5 10 15

Ala Val Ile Ser Ala Ala Pro Ala Val Ala Thr Val Gly Gln Ala Ala
 20 25 30

Leu Ala Arg Gly
 35

<210> 53
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 Ala Ile Ile Ser Ala Gly Pro Ala Val Ala Thr Val Gly Gln Ala Ala
 20 25 30
 Ala Ile Ala Arg Gly
 35

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<220>
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 1 5 10 15
 Ala Ile Ile Ser Ala Ala Pro Ala Val Ala Thr Val Gly Gln Ala Ala
 20 25 30
 Ala Ile Ala Arg Gly
 35

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 Ala Val Ile Ser Ala Ala Pro Ala Val Ala Thr Val Gly Gln Ala Ala
 20 25 30
 Ala Ile Ala Arg Gly Gly
 35

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 1 5 10 15

Gly Leu Ala Glx His Phe Ala Asn
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 Gly Ile Gly Ala Ser Ile Leu Ser Ala Gly Lys Ser Ala Leu Lys Gly
 1 5 10 15

Leu Ala Lys Gly Leu Ala Glu His Phe Ala Asn
 20 25

<210> 58
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 <212> PRT
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<220>
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 peptide

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 Gly Ile Gly Ser Ala Ile Leu Ser Ala Gly Lys Ser Ala Leu Lys Gly
 1 5 10 15

Leu Ala Lys Gly Leu Ala Glu His Phe Ala Asn
 20 25

<210> 59
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 <212> PRT
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<400> 59

Ile	Lys	Ile	Thr	Thr	Met	Leu	Ala	Lys	Leu	Gly	Lys	Val	Leu	Ala	His
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Val

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<211> 17

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Ser	Lys	Ile	Thr	Asp	Ile	Leu	Ala	Lys	Leu	Gly	Lys	Val	Leu	Ala	His
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Val

<210> 61

<211> 58

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Arg	Pro	Asp	Phe	Cys	Leu	Glu	Pro	Pro	Tyr	Thr	Gly	Pro	Cys	Lys	Ala
1				5					10					15	

Arg	Ile	Ile	Arg	Tyr	Phe	Tyr	Asn	Ala	Lys	Ala	Gly	Leu	Cys	Gln	Thr
			20					25					30		

Phe	Val	Tyr	Gly	Gly	Cys	Arg	Ala	Lys	Arg	Asn	Asn	Phe	Lys	Ser	Ala
		35					40					45			

Glu	Asp	Cys	Met	Arg	Thr	Cys	Gly	Gly	Ala
	50					55			

<210> 62

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Phe Leu Pro Leu Leu Ala Gly Leu Ala Ala Asn Phe Leu Pro Lys Ile
 1 5 10 15

Phe Cys Lys Ile Thr Arg Lys Cys
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<210> 63

<211> 33

<212> PRT

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<400> 63

Gly Ile Met Asp Thr Leu Lys Asn Leu Ala Lys Thr Ala Gly Lys Gly
 1 5 10 15

Ala Leu Gln Ser Leu Leu Asn Lys Ala Ser Cys Lys Leu Ser Gly Gln
 20 25 30

Cys

<210> 64

<211> 37

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 64

Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg
 1 5 10 15

Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala
 20 25 30

Thr Gln Ile Ala Lys
 35

<210> 65

<211> 35

<212> PRT

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Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg
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Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
 20 25 30

Lys Ala Leu
 35

<210> 66

<211> 40

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<400> 66

Gly Trp Leu Lys Lys Leu Gly Lys Arg Ile Glu Arg Ile Gly Gln His
 1 5 10 15

Thr Arg Asp Ala Thr Ile Gln Gly Leu Gly Ile Ala Gln Gln Ala Ala
 20 25 30

Asn Val Ala Ala Thr Ala Arg Gly
 35 40

<210> 67

<211> 36

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 67

Trp Asn Pro Phe Lys Glu Leu Glu Lys Val Gly Gln Arg Val Arg Asp
 1 5 10 15

Ala Val Ile Ser Ala Gly Pro Ala Val Ala Thr Val Ala Gln Ala Thr
 20 25 30

Ala Leu Ala Lys
 35

<210> 68

<211> 31

<212> PRT

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<400> 68

Ser	Trp	Leu	Ser	Lys	Thr	Ala	Lys	Lys	Leu	Glu	Asn	Ser	Ala	Lys	Lys
1				5					10					15	

Arg	Ile	Ser	Glu	Gly	Ile	Ala	Ile	Ala	Ile	Gln	Gly	Gly	Pro	Arg
			20				25						30	

<210> 69

<211> 37

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<400> 69

Glx	Phe	Thr	Asn	Val	Ser	Cys	Thr	Thr	Ser	Lys	Glu	Cys	Trp	Ser	Val
1				5					10					15	

Cys	Gln	Arg	Leu	His	Asn	Thr	Ser	Arg	Gly	Lys	Cys	Met	Asn	Lys	Lys
			20					25					30		

Cys	Arg	Cys	Tyr	Ser
			35	

<210> 70

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Phe	Leu	Pro	Leu	Ile	Leu	Arg	Lys	Ile	Val	Thr	Ala	Leu
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<210> 71

<211> 35

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<400> 71

Leu	Arg	Asp	Leu	Val	Cys	Tyr	Cys	Arg	Ser	Arg	Gly	Cys	Lys	Gly	Arg
1				5					10					15	

Glu Arg Met Asn Gly Thr Cys Arg Lys Gly His Leu Leu Tyr Thr Leu
 20 25 30

Cys Cys Arg
 35

<210> 72
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<220>
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 peptide

<400> 72
 Leu Arg Asp Leu Val Cys Tyr Cys Arg Thr Arg Gly Cys Lys Arg Arg
 1 5 10 15

Glu Arg Met Asn Gly Thr Cys Arg Lys Gly His Leu Met Tyr Thr Leu
 20 25 30

Cys Cys Arg
 35

<210> 73
 <211> 33
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 73
 Val Val Cys Ala Cys Arg Arg Ala Leu Cys Leu Pro Arg Glu Arg Arg
 1 5 10 15

Ala Gly Phe Cys Arg Ile Arg Gly Arg Ile His Pro Leu Cys Cys Arg
 20 25 30

Arg

<210> 74
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 peptide

<400> 74

Val	Val	Cys	Ala	Cys	Arg	Arg	Ala	Leu	Cys	Leu	Pro	Leu	Glu	Arg	Arg
1				5					10					15	
Ala	Gly	Phe	Cys	Arg	Ile	Arg	Gly	Arg	Ile	His	Pro	Leu	Cys	Cys	Arg
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Arg

<210> 75

<211> 31

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<400> 75

Arg	Arg	Cys	Ile	Cys	Thr	Thr	Arg	Thr	Cys	Arg	Phe	Pro	Tyr	Arg	Arg
1				5					10					15	
Leu	Gly	Thr	Cys	Ile	Phe	Gln	Asn	Arg	Val	Tyr	Thr	Phe	Cys	Cys	
			20					25					30		

<210> 76

<211> 31

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<400> 76

Arg	Arg	Cys	Ile	Cys	Thr	Thr	Arg	Thr	Cys	Arg	Phe	Pro	Tyr	Arg	Arg
1				5					10					15	
Leu	Gly	Thr	Cys	Leu	Phe	Gln	Asn	Arg	Val	Tyr	Thr	Phe	Cys	Cys	
			20					25					30		

<210> 77

<211> 30

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<400> 77

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1				5					10					15	



Arg

<210> 81
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 peptide

<400> 81
 Val Thr Cys Tyr Cys Arg Arg Thr Arg Cys Gly Phe Arg Glu Arg Leu
 1 5 10 15
 Ser Gly Ala Cys Gly Tyr Arg Gly Arg Ile Tyr Arg Leu Cys Cys Arg
 20 25 30

<210> 82
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 82
 Val Thr Cys Tyr Cys Arg Ser Thr Arg Cys Gly Phe Arg Glu Arg Leu
 1 5 10 15
 Ser Gly Ala Cys Gly Tyr Arg Gly Arg Ile Tyr Arg Leu Cys Cys Arg
 20 25 30

<210> 83
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 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 83
 Asp Phe Ala Ser Cys His Thr Asn Gly Gly Ile Cys Leu Pro Asn Arg
 1 5 10 15
 Cys Pro Gly His Met Ile Gln Ile Gly Ile Cys Phe Arg Pro Arg Val
 20 25 30
 Lys Cys Cys Arg Ser Trp
 35

<210> 84
 <211> 40
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 84

Val Arg Asn His Val Thr Cys Arg Ile Asn Arg Gly Phe Cys Val Pro
1 5 10 15

Ile Arg Cys Pro Gly Arg Thr Arg Gln Ile Gly Thr Cys Phe Gly Pro
20 25 30

Arg Ile Lys Cys Cys Arg Ser Trp
35 40

<210> 85

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Asn Pro Val Ser Cys Val Arg Asn Lys Gly Ile Cys Val Pro Ile Arg
1 5 10 15

Cys Pro Gly Ser Met Lys Gln Ile Gly Thr Cys Val Gly Arg Ala Val
20 25 30

Lys Cys Cys Arg Lys Lys
35

<210> 86

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Ala Thr Cys Asp Leu Leu Ser Gly Thr Gly Ile Asn His Ser Ala Cys
1 5 10 15

Ala Ala His Cys Leu Leu Arg Gly Asn Arg Gly Gly Tyr Cys Asn Gly
20 25 30

Lys Ala Val Cys Val Cys Arg Asn
35 40

<210> 87
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 87
 Gly Phe Gly Cys Pro Leu Asp Gln Met Gln Cys His Arg His Cys Gln
 1 5 10 15
 Thr Ile Thr Gly Arg Ser Gly Gly Tyr Cys Ser Gly Pro Leu Lys Leu
 20 25 30
 Thr Cys Thr Cys Tyr Arg
 35

<210> 88
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 88
 Gly Phe Gly Cys Pro Leu Asn Gln Gly Ala Cys His Arg His Cys Arg
 1 5 10 15
 Ser Ile Arg Arg Arg Gly Gly Tyr Cys Ala Gly Phe Phe Lys Gln Thr
 20 25 30
 Cys Thr Cys Tyr Arg Asn
 35

<210> 89
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 89
 Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
 1 5 10 15
 Ala Gly Lys Ala Ala Leu Gly Ala Ala Asp Thr Ile Ser Gln Thr Gln
 20 25 30

<210> 90
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 90
 Gly Lys Pro Arg Pro Tyr Ser Pro Arg Pro Thr Ser His Pro Arg Pro
 1 5 10 15

Ile Arg Val

<210> 91
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 91
 Gly Ile Phe Ser Lys Leu Gly Arg Lys Lys Ile Lys Asn Leu Leu Ile
 1 5 10 15

Ser Gly Leu Lys Asn Val Gly Lys Glu Val Gly Met Asp Val Val Arg
 20 25 30

Thr Gly Ile Asp Ile Ala Gly Cys Lys Ile Lys Gly Glu Cys
 35 40 45

<210> 92
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 92
 Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg
 1 5 10

<210> 93
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 93

Phe Lys Cys Arg Arg Trp Gln Trp Arg Met Lys Lys Leu Gly Ala Pro
 1 5 10 15

Ser Ile Thr Cys Val Arg Arg Ala Pro
 20 25

<210> 94

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 94

Ile Thr Ser Ile Ser Leu Cys Thr Pro Gly Cys Lys Thr Gly Ala Leu
 1 5 10 15

Met Gly Cys Asn Met Lys Thr Ala Thr Cys His Cys Ser Ile His Val
 20 25 30

Ser Lys

<210> 95

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 95

Thr Ala Gly Pro Ala Ile Arg Ala Ser Val Lys Gln Cys Gln Lys Thr
 1 5 10 15

Leu Lys Ala Thr Arg Leu Phe Thr Val Ser Cys Lys Gly Lys Asn Gly
 20 25 30

Cys Lys

<210> 96

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 96

Met Ser Lys Phe Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys
 1 5 10 15

Gln Asp Ser Lys Ile Thr Pro Gln Trp Lys Ser Glu Ser Leu Cys Thr
 20 25 30

Pro Gly Cys Val Thr Gly Ala Leu Gln Thr Cys Phe Leu Gln Thr Leu
 35 40 45

Thr Cys Asn Cys Lys Ile Ser Lys
 50 55

<210> 97

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 97

Lys Tyr Tyr Gly Asn Gly Val His Cys Thr Lys Ser Gly Cys Ser Val
 1 5 10 15

Asn Trp Gly Glu Ala Phe Ser Ala Gly Val His Arg Leu Ala Asn Gly
 20 25 30

Gly Asn Gly Phe Trp
 35

<210> 98

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 98

Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe
 1 5 10 15

Val Gly Glu Ile Met Lys Ser
 20

<210> 99

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 99

Gly	Ile	Gly	Lys	Phe	Leu	His	Ser	Ala	Lys	Lys	Phe	Gly	Lys	Ala	Phe
1					5				10					15	

Val	Gly	Glu	Ile	Met	Asn	Ser
			20			

<210> 100

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 100

Gly	Met	Ala	Ser	Lys	Ala	Gly	Ala	Ile	Ala	Gly	Lys	Ile	Ala	Lys	Val
1				5				10						15	

Ala	Leu	Lys	Ala	Leu
			20	

<210> 101

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 101

Gly	Val	Leu	Ser	Asn	Val	Ile	Gly	Tyr	Leu	Lys	Lys	Leu	Gly	Thr	Gly
1				5				10						15	

Ala	Leu	Asn	Ala	Val	Leu	Lys	Gly
				20			

<210> 102

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 102

Gly	Trp	Ala	Ser	Lys	Ile	Gly	Gln	Thr	Leu	Gly	Lys	Ile	Ala	Lys	Val
1				5				10						15	

Gly Leu Lys Glu Leu Ile Gln Pro Lys
 20 25

<210> 103
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 103
 Ile Asn Leu Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
 1 5 10

<210> 104
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 104
 Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
 1 5 10 15

Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
 20 25

<210> 105
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 105
 Ala Thr Cys Asp Leu Leu Ser Gly Thr Gly Ile Asn His Ser Ala Cys
 1 5 10 15

Ala Ala His Cys Leu Leu Arg Gly Asn Arg Gly Gly Tyr Cys Asn Gly
 20 25 30

Lys Gly Val Cys Val Cys Arg Asn
 35 40

<210> 106
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 106
 Ala Thr Cys Asp Leu Leu Ser Gly Thr Gly Ile Asn His Ser Ala Cys
 1 5 10 15
 Ala Ala His Cys Leu Leu Arg Gly Asn Arg Gly Gly Tyr Cys Asn Arg
 20 25 30
 Lys Gly Val Cys Val Arg Asn
 35

<210> 107
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 107
 Arg Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Phe Cys Tyr Arg Lys
 1 5 10 15
 Cys Arg

<210> 108
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 108
 Arg Arg Trp Cys Phe Arg Val Cys Tyr Lys Gly Phe Cys Tyr Arg Lys
 1 5 10 15
 Cys Arg

<210> 109
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 109

Arg	Gly	Gly	Arg	Leu	Cys	Tyr	Cys	Arg	Arg	Arg	Phe	Cys	Val	Cys	Val
1				5				10						15	

Gly Arg

<210> 110

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 110

Arg	Gly	Gly	Arg	Leu	Cys	Tyr	Cys	Arg	Arg	Arg	Phe	Cys	Ile	Cys	Val
1				5				10						15	

<210> 111

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 111

Arg	Gly	Gly	Gly	Leu	Cys	Tyr	Cys	Arg	Arg	Arg	Phe	Cys	Val	Cys	Val
1				5				10						15	

Gly Arg

<210> 112

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 112

Val	Thr	Cys	Asp	Leu	Leu	Ser	Phe	Lys	Gly	Gln	Val	Asn	Asp	Ser	Ala
1				5				10						15	

Cys	Ala	Ala	Asn	Cys	Leu	Ser	Leu	Gly	Lys	Ala	Gly	Gly	His	Cys	Glu
			20					25					30		

Lys Gly Val Cys Ile Cys Arg Lys Thr Ser Phe Lys Asp Leu Trp Asp
 35 40 45

Lys Tyr Phe
 50

<210> 113
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 113
 Gly Trp Leu Lys Lys Ile Gly Lys Lys Ile Glu Arg Val Gly Gln His
 1 5 10 15

Thr Arg Asp Ala Thr Ile Gln Gly Leu Gly Ile Ala Gln Gln Ala Ala
 20 25 30

Asn Val Ala Ala Thr Ala Arg
 35

<210> 114
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 114
 Gly Trp Leu Lys Lys Ile Gly Lys Lys Ile Glu Arg Val Gly Gln His
 1 5 10 15

Thr Arg Asp Ala Thr Ile Gln Val Ile Gly Val Ala Gln Gln Ala Ala
 20 25 30

Asn Val Ala Ala Thr Ala Arg
 35

<210> 115
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 115

Ser Asp Glu Lys Ala Ser Pro Asp Lys His His Arg Phe Ser Leu Ser
 1 5 10 15

Arg Tyr Ala Lys Leu Ala Asn Arg Leu Ala Asn Pro Lys Leu Leu Glu
 20 25 30

Thr Phe Leu Ser Lys Trp Ile Gly Asp Arg Gly Asn Arg Ser Val
 35 40 45

<210> 116

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 116

Lys Trp Cys Phe Arg Val Cys Tyr Arg Gly Ile Cys Tyr Arg Arg Cys
 1 5 10 15

Arg

<210> 117

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 117

Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Ile Cys Tyr Arg Lys Cys
 1 5 10 15

Arg

<210> 118

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 118

Lys Ser Cys Cys Lys Asp Thr Leu Ala Arg Asn Cys Tyr Asn Thr Cys
 1 5 10 15

Arg Phe Ala Gly Gly Ser Arg Pro Val Cys Ala Gly Ala Cys Arg Cys
 20 25 30

Lys Ile Ile Ser Gly Pro Lys Cys Pro Ser Asp Tyr Pro Lys
 35 40 45

<210> 119
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 119
 Gly Gly Lys Pro Asp Leu Arg Pro Cys Ile Ile Pro Pro Cys His Tyr
 1 5 10 15
 Ile Pro Arg Pro Lys Pro Arg
 20

<210> 120
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 120
 Val Lys Asp Gly Tyr Ile Val Asp Asp Val Asn Cys Thr Tyr Phe Cys
 1 5 10 15
 Gly Arg Asn Ala Tyr Cys Asn Glu Glu Cys Thr Lys Leu Lys Gly Glu
 20 25 30
 Ser Gly Tyr Cys Gln Trp Ala Ser Pro Tyr Gly Asn Ala Cys Tyr Cys
 35 40 45
 Lys Leu Pro Asp His Val Arg Thr Lys Gly Pro Gly Arg Cys His
 50 55 60

<210> 121
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 121
 Gly Gly Gly Arg Gly Asp Ser
 1 5

<210> 122
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 122
 ggcggtggga gaggagatag t 21

<210> 123
 <211> 1701
 <212> DNA
 <213> Homo sapiens

<400> 123
 aagcttcccc aaatctcctg cctccccacg ctgagttatc cgatgtctga aatgtcacag 60
 cacttagtct tactcttcta tggcctactt tctactgcta tttgtgttac tcatgctacc 120
 catcttatct ccctcagtggt gtgagacgct ggcacatgat ttggcatctc ccacacactc 180
 aacattatgt gttgcacaca gtaggtactc aatacatgca agttttctga atagatattt 240
 tcctagtcat ctgtggcacc tgctatatcc tactgaaaat taccaaaatg caattaactt 300
 caattttaca tttgggattt acagaaaata actctctctc caagaaatgc ataacaattt 360
 agctagggca aatgccaggt ccgagttaag acattaatgc gcttcgatcg cgataaggat 420
 ttatccttat ccccatcctc atctttctgc gtcgtctaata tcaagttagg tcagtaaagg 480
 aaaccttttc gtttttagcaa cccaatctgc tccccctctc tggcctcttt ctctcctttt 540
 gttggtagac gacttcagcc tctgtccttt aattttaaag tttatgcccc acttgtacct 600
 ctctgtctttt ggtgatttag agattttcaa agcctgctct gacacagact ctctcttggg 660
 ttgcaacttc tctactttgg ggtggaaacg gcttctccgt tttgaaacgc tagcgggggaa 720
 aaaaatggggg agaaagttag gtttaaaactt ttaaaagttag agtcacgggt ggttgccgag 780
 caaaagcccc gcagtgtgga gaaagcctaa acgtggtttg ggtggtgctg ggggtgggag 840
 ggggtgactt ttgggggata aggggagggtg gagcccgagg aatgccaaaag ccctgccgag 900
 gcctccgagc cgccgcccccc gccctctgcc tctccccgc ccccgactga ggccgggctc 960
 cccgcccggac tgatgtcgcg cgcttgctgt ttgtggccga accgccgaac tcagaggccg 1020
 gccccagaaa acccgagcga gtagggggcg gcgcgcagga gggaggagaa ctggggggcg 1080
 gggaggctgg tgggtgtggg ggggtggagat gtagaagatg tgacgccgag gccggggcg 1140
 tgccagatta gcggacggtg cccgcggttg caacgggatc ccgggagctg cagcttggga 1200
 ggaggctctc ccagggcggt gtccgaggag acaccatcc gtgaacccca ggtcccggg 1260
 cgccggctcg ccgcgcacca ggggcccggc gacagaagag cggccgagcg gctcagaggct 1320
 gggggaccgc gggcgcgcc gcgcgctgcc gggcgaggag ctggggggcc gggggcggg 1380
 ccgtgccccg gagcgggtcg gaggcgggg ccggggccgg gggacggcg ctccccgcgc 1440
 ggctccagcg gctcggggat cccggccggg cccgcaggg accatggcag cggggagcat 1500
 caccacgctg cccgccttgc ccgaggatgg cggcagcgg gccttcccgc ccggccactt 1560
 caaggacccc aagcggctgt actgcaaaaa cgggggcttc ttctgctgca tccaccccga 1620
 cggccgagtt gacggggtcc gggagaagag cgaccctcac agtgagtgc gaccgctct 1680
 ctccgcctca tttccatttc g 1701

<210> 124
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 124
agacattaat gcgcttcgat cg 22

<210> 125
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 125
ggcggagtaa aggtaaagct ga 22

<210> 126
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 126
Val Val Val Val Val Lys
1 5

<210> 127
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 127
Val Val Val Val Val
1 5

<210> 128
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 128

Lys Lys Lys Lys

1

<210> 129

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 129

Lys Val Val Val Val Val

1

5

<210> 130

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 130

Cys Arg Gly Asp Ser Leu Leu Leu Leu Leu Leu Leu Leu Leu

1

5

10

15

<210> 131

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 131

Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu

1

5

10